

ABSTRACT

A portable medication delivery system enables a patient to elect slow continuous auto-administration or rapid bolus self-administration of a fluid medication. The medication delivery system has an infusion pump, which includes a fluid storage chamber and a spring-driven piston positioned in the fluid storage chamber. The fluid storage chamber is initially charged with the medication and the infusion pump automatically delivers a continuous dosage of the medication at a first flow rate over a long time from the fluid storage chamber to a treatment site in the patient. A bolus injector is positioned in series or in parallel with the infusion pump and is charged with a bolus dosage of the treatment fluid from the fluid storage chamber for alternate manual self-injection of the medication into the treatment site at a higher second flow rate for a short time. The infusion pump flowpath includes a drip chamber having an in-line flow restriction, which converts a continuous flow stream from the fluid storage chamber to a drip stream. A sight window in the drip chamber permits the user to visually confirm the flow of medication through the infusion pump.